PCT

WORLD INTELLECTUAL PROPERTY ORGANIZATION International Bureau



INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification 6:

(11) International Publication Number:

WO 96/25012

H04Q 3/00, H04M 3/42

(43) International Publication Date:

15 August 1996 (15.08.96)

(21) International Application Number:

PCT/GB96/00252

A1

(22) International Filing Date:

7 February 1996 (07.02.96)

(30) Priority Data:

95300754.9 7 February 1995 (07.02.95) EP
(34) Countries for which the regional or
international application was filed: AT et al.
9508283.0 24 April 1995 (24.04.95) GB

(71) Applicant (for all designated States except US): BRITISH
TELECOMMUNICATIONS PUBLIC LIMITED COMPANY [GB/GB]; 81 Newgate Street, London EC1A 7AJ

(72) Inventors; and

(75) Inventors/Applicants (for US only): YATES, Martin, John [GB/GB]; 39 Shakespeare Road, Stowmarket, Suffolk IP14 TU (GB). MARSHALL, Ian, William [GB/GB]; 9 Cobbold Road, Woodbridge, Suffolk IP12 1HA (GB). HILL, Julian, Richard [GB/GB]; 3 Tunstall Green, Tunstall, Woodbridge, Suffolk IP12 2JJ (GB). FARLEY, Patrick, Brian [GB/GB]; 22 Stokebridge Maltings, Dock Street, Ipswich, Suffolk IP2 8EU (GB). BAGLEY, Mark [GB/GB]; 16 Blake Avenue, Shotley Gate, Ipswich, Suffolk IP9 1RL (GB).

(74) Agent: DUTTON, Erica, Lindley, Graham; BT Group Legal Services, Intellectual Property Dept., 8th floor, 120 Holbom, London EC1N 2TE (GB).

(81) Designated States: AL, AM, AT, AU, AZ, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IS, JP, KE, KG, KP, KR, KZ, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, TJ, TM, TR, TT, UA, UG, US, UZ, VN, ARIPO patent (KE, LS, MW, SD, SZ, UG), Eurasian patent (AZ, BY, KG, KZ, RU, TJ, TM), European patent (AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG).

Published

With international search report.

(54) Title: INFORMATION SERVICES PROVISION AND MANAGEMENT

(57) Abstract

A services provision system, for use in providing information services over one or more communications networks, has a software infrastructure divided into domains (101, 103, 104, 106). Each domain has an intelligent software agent (102, 107, 109, 110) and this community of agents sits in a computing environment represented in each domain by a DPE kernel (105). The community of agents co-operates to provide service and service management functionality to a user. At least one of the agents (102, 107, 109, 110) is reconfigurable to change the functionality the system makes available. Reconfigurability is based on the use of a plurality of reusable software modules, the agent reconfiguring by selecting a new combination of modules. The software modules themselves incorporate rules, or policies, which determine process steps offered by the modules at run-time. These policies are external to the modules and may be loaded at run-time, allowing dynamic modification to functionality of the system. The system as a whole offers functionality associated with using services, providing them and managing them and the reconfigurability allows it to offer the different types of functionality in an efficient way. It also allows access control to functionality at different levels with particularly good security against fraudulent use.

